AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 7, line 21, with the following rewritten paragraph:

Now, the whole generating probability P (t) becomes as follows:

$$P(t) \underline{dt} = P_A(t)dt + P_B(t)dt + P_C(t)dt + P_D(t)dt$$
$$= \sum (C \cdot t)^N / N! \exp(-Ct) \cdot [\alpha_t \exp(-\lambda t) \cdot \lambda + C] dt$$

and, since the following equation

$$(C \cdot t)^N / N! = \exp(Ct)$$

is obtained by the Maclaurin's expansion, the probability of the correlated events from the whole parent nuclides to the disintegrated progenies thereof becomes as follows:

P(t) dt = {
$$\alpha_t \cdot \exp(-\lambda t) \cdot \lambda + C$$
} dt.

Please replace the paragraph beginning at page 8, line 10, with the following rewritten paragraph:

Conversely speaking, as being understood from the foregoing, the P(t) is obtained from the time distribution of the plotted incident pulses, by fitting the linear originated in the random events corresponding to the background and the non-linear originated in the correlated events of parent nuclide-disintegrated progenies by using least squares method:

$$P(t) \underline{dt} = \{ \alpha_t \cdot \exp(-\lambda t) \cdot \lambda + C \} dt.$$

The random events portion is then subtracted from the P(t) dt to thereby extract the correlated events portion from the parent nuclide to the disintegrated products thereof.